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THE HASLING CYCLONE STRIKE INDEX 2018 ATLANTIC HURRICANE OUTLOOK VERIFIED WITH THE LANDFALL OF TROPICAL STORM GORDON

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HOUSTON, TEXAS USA – Jill F. Hasling, CCM using the Hasling Cyclone Strike Index [CSI] stated that the outlook for 2018 was difficult to forecast since it was in Phase 11 and 12 of the Hasling Cyclone Strike Index. The years used for Phase 11 and 12 are 1888, 1899, 1900, 1911, 1912, 1943, 1974 and 1975. Recent years in Phase 11 and Phase 12 were 2006 and 2007.

According to the Hasling Cyclone Strike Index, the Louisiana to Alabama coast had the highest risk in 2018 of experiencing a landfall of tropical storm or hurricane with a 75% chance. This forecast verified with the landfall of Tropical Storm Gordon. The Gulf of Mexico Oil leases had an 88% chance of experiencing a named tropical cyclone in the 2018 season. This also verified with Tropical Storm Gordon moving over the eastern leases.

Secondary predictors of the CSI indicated that ten to thirteen named tropical cyclones were expected in the 2018 season with six of them becoming hurricanes. There were 15 cyclones, Alberto through Oscar, and eight of these 15 cyclones intensified into hurricanes. There were two major hurricanes, Florence and Michael.

The CSI indicated there would be at least 3 cyclones making landfall somewhere along the United States coastline. This verified with the landfall of Tropical Storm Gordon along the Alabama to Louisiana Coast, Hurricane Florence along the Carolinas and Hurricane Michael along the panhandle of Florida.

There was an indication that it could be a long season with cyclones as early as June and as late as December. The season started early with the first tropical system Tropical Storm Alberto developing in May.

Significant hurricanes that have occurred during the past years that were in this Phase of the CSI:

- The 1900 Great Galveston Hurricane
- The 1943 Texas Hurricane
- 1899 The San Ciriaco Hurricane caused 3656 deaths
- 1974 Hurricane Carmen - landfall in Louisiana.
- 1975 Hurricane Eloise – Florida

The significant Hurricanes this year were Hurricane Florence making landfall in the Carolinas and Hurricane Michael making landfall in west Florida.

2018 WRC CSI ATLANTIC HURRICANE OUTLOOK

| 2018 Cyclone Strike Index Outlook | CSI | OBSERVED |
|--|------------|------------------|
| Gulf of Mexico Offshore Leases | 88% | Gordon |
| Texas | 50% | |
| Louisiana to Alabama | 75% | TS Gordon |
| | | Alberto, |
| West Florida | 50% | Michael |
| East Florida | 13% | |
| Georgia to North Carolina | 50% | Florence |
| East Coast of US | 25% | |
| Mexico | 25% | |
| SECONDARY CSI PREDICTORS | | |
| Number of Storms | 10-13 | 15 |
| Number of Hurricanes | 6 | 8 |
| Hurricane Days | 24 | 26 |
| Tropical Storm Days | 30 | 46 |
| US Landfalls | 3 | 4 |
| | | Florence, |
| Category 3,4,5 Hurricanes | 67% | Michael |

The 2019 Cyclone Strike Outlook predicts the coast line along the Georgia to North Carolina Coast has the highest risk of experiencing a named tropical cyclone with a 90% chance. The CSI is calling for 11 to 14 named tropical cyclones.

The analog years for the 2019 season are 1889, 1901, 1913, 1923, 1933, 1944, 1954, 1964, 1976, 1986, 1996, and 2008. Significant hurricanes during this phase of the CSI are:

| | |
|------|--|
| 1933 | Cat 3 Southeast Florida |
| 1933 | Cat 3 South Texas |
| 1933 | Cat 3 North Carolina |
| 1944 | Cat 3 Southwest Florida |
| 1954 | Hurricane Hazel – Cat 4 South and North Carolina |
| 1954 | Hurricane Edna – Cat 3 New England |
| 1964 | Hurricane Hilda – Louisiana |
| 2008 | Hurricane Ike – Upper Texas Coast |

2019 CSI ATLANTIC HURRICANE OUTLOOK

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|--|------------|
| 2019 Cyclone Strike Index Outlook | CSI |
| Gulf of Mexico Offshore Leases | 90% |
| Texas | 40% |
| Louisiana to Alabama | 60% |
| West Florida | 70% |
| East Florida | 50% |
| Georgia to North Carolina | 90% |
| East Coast of US | 60% |
| Mexico | 40% |
| SECONDARY CSI PREDICTORS | |
| Number of Storms | 11-14 |
| Number of Hurricanes | 5 |
| Hurricane Days | 24 |
| Tropical Storm Days | 83 |
| US Landfalls | 4 |
| Category 3,4,5 Hurricanes | 50% |

The Hasling Cyclone Strike Index [CSI] Outlooks have been issued each year since 1984. The seasonal index has verified 91% of the time in regards to the section with the highest possibility of landfall. For more information on the outlook go to <http://www.wxresearch.com/outlook>.

For further information or questions regarding the hurricane outlook, please do not hesitate to contact Jill Hasling, CCM at wrc@wxresearch.org or 713-818-9346